Negative Impacts of Feral Hogs

Feral Hog Management in the Southeast August 17th & 18th, 2010

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Negative Impacts of Feral Hogs

- Ecological Damage
- Economic Losses
 - Agriculture Damage
 - Livestock Depredation
 - Reforestation Failure
 - Damage in Suburban Communities
- Disease Threats



Photo Credit: Chris Jaworowski in West et al. (2009)

Ecological Damage

- · Impact of Rooting
- Damage to plant & animal communities
- Increase in exotic plants
- Increase in soil erosion
- Decreased water quality
- · Affects on other wildlife



Photo Credit: Chris Jaworowski in West et al. (2009

Ecological Damage

- · Impact of rooting
- Besides man, greatest vertebrate modifier of natural communities



Ecological Damage

- Damage to Native Plant Communities
- Direct & indirect effects
- Rooting, trampling, soil compaction, water infiltration



- · Disruption of nutrient cycle
- Effects most pronounced in wetland areas
- Documented declines in NP communities in FL & HI

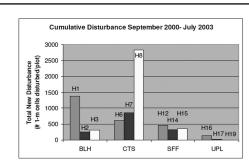
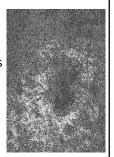


Figure 2-5. Cumulative disturbance per habitat type and plot for the three year study period; mixed bottomland hardwoods (BLH), cypress-tupelo swamp (CTS), seepage floodplain forest (SFF), and upland pine flavwoods (UPL).

Zengal 2008. p. 204. Wild Pig Habitat Use, Substrate Disturbance, and Understory Vegetation at the Congaree National Park, Ph.D. Dissertation.

Ecological Damage

- Damage to Sensitive Plant & Animal Species
- Destruction of rare & endangered plant communities in SC Heritage Preserves
- Depredation to threatened loggerhead sea turtle nests on North Island, Winyah Bay, SC
- FL endangered turtles nests destroyed



Ecological Damage

- Increase in Exotic & Less Desirable Plants
- Frequent rooting disturbance favors competitive nonnative plants
- Out compete native plants



Ecological Damage

- Increase in Soil Erosion
- Loss of soil fertility, plant growth, plant diversity
- Effects on water quality from siltation



Photo Credit:Eddie Parham in West et al. (200 Managing Wild Pigs: A Technical Guide

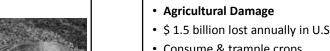
Ecological Damage

- · Decreased Water Quality
- Soil runoff & bacterial contamination
- Impacts aquatic flora & fauna
- Freshwater mussels & insects impacted
- Fecal coliforms in some streams exceeds human health standards



Ecological Damage

- · Effects on Other Wildlife
- · Damage to habitat
- Direct predation
- Significant predators of ground nesting bird nests
- Competition for resources, especially soft & hard mast (fruit)
- Spread of diseases & parasites



 Consume & trample crops, damage pastures by rooting & digging

Economic Losses

- Hay, small grains, corn, peanuts, vegetables, watermelons, soybeans, cotton, tree fruits & others
- Damage to fences, roads, dikes



Economic Losses

- · Livestock Depredation
- · Prey on lambs, goats, newborn cattle, poultry, & exotic game
- Predation on young animals usually occurs on calving or lambing grounds, may be attracted to afterbirth



Pattern of Wild Pig Predation

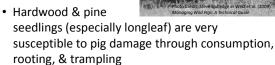
- · Difficult to verify, entire carcass is usually consumed, leaving little evidence.
- Also scavenge carcasses killed by other animals.



Kill prey by biting & crushing skull or neck; carcass skinned & stomach contents consumed.

Economic Losses

- Forestry/Reforestation Challenges
- Regeneration of hardwoods from seed may be difficult





Economic Losses

- Damage in Suburban **Communities**
- · Yard, landscape & ornamental plant damage
- Garden damage
- · Golf course damage



Economic Losses

- Management for **Game Species**
- · Destruction of wildlife plantings & food plots
- Consumption of corn & other supplemental foods at feeders
- · Damage to habitats





Disease Threats

- Carry disease that affect humans, livestock, & wildlife
- Humans brucellosis, leptospirosis, salmonellosis, toxoplasmosis, sarcoptic mange, E. coli, & trichinosis
- Livestock & Wildlife pseudorabies, swine brucellosis, tuberculosis, vesicular stomatis, & classical swine fever
- Serve as a reservoirs & amplifier for other diseases (e.g. foot & mouth disease)



Positive Impacts of Feral Hogs?

- Increased hunting opportunities
- Increase revenue from hunts
- Rooting may stimulate production of native plants that require disturbance



